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1 Nonorthogonal decomposition of binary matrices for bounded-error data compression and analysis ■
Mehmet Koyutürk, Ananth Grama, Naren Ramakrishnan
March 2006 **ACM Transactions on Mathematical Software (TOMS)**, Volume 32 Issue 1
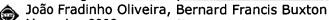**Publisher:** ACM Press
Full text available: pdf(1.07 MB)   Additional Information: full citation, abstract, references, index terms

This article presents the design and implementation of a software tool, PROXIMUS, for error-bounded approximation of high-dimensional binary attributed datasets based on nonorthogonal decomposition of binary matrices. This tool can be used for analyzing data arising in a variety of domains ranging from commercial to scientific applications. Using a combination of innovative algorithms, novel data structures, and efficient implementation, PROXIMUS demonstrates excellent accuracy, performance, and ...

Keywords: Compressing binary-valued vectors, nonorthogonal matrix decompositions, semidiscrete decomposition

2 Modeling: PNORMS: platonic derived normals for error bound compression ◼
João Fradinho Oliveira, Bernard Francis Buxton
November 2006 **Proceedings of the ACM symposium on Virtual reality software and technology VRST '06**
Publisher: ACM Press
Full text available: pdf(3.97 MB)   Additional Information: full citation, abstract, references, index terms

3D models of millions of triangles invariably repeatedly use the same 12-byte unit normals. Several bit-wise compression algorithms exist for efficient storage and progressive transmission and visualization of normal vectors. However such methods often incur a reconstruction time penalty which, in the absence of dedicated hardware acceleration, make real-time rendering with such compression/reconstruction methods prohibitive. In particular, several methods use a subdivided octahedron to create I ...

Keywords: colour compression, error bound, normal compression, run-time encoding

3 Bounded-error compression of particle data from hierarchical approximate methods ■
Dow-Yung Yang, Ananth Grama, Vivek Sarin
January 1999 **Proceedings of the 1999 ACM/IEEE conference on Supercomputing**